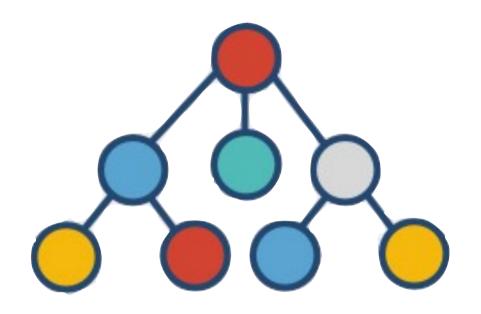
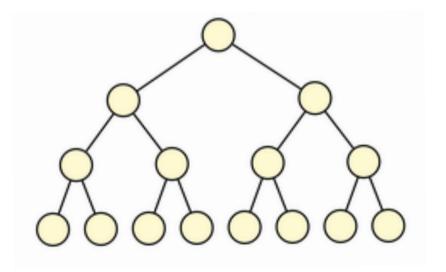
DATA STRUCTURE & ALGORITHMS

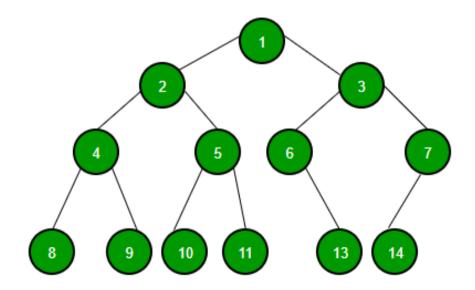


(By Prince Agarwal)
["HELLO WORLD"]

- WHAT IS BINARY TREE?
 - A tree whose elements have at most 2 children
 Now, we name them, Left child & Right child
- **Examples of Binary Tree**



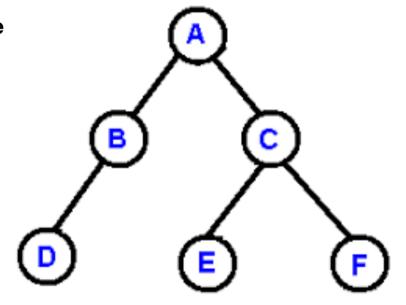
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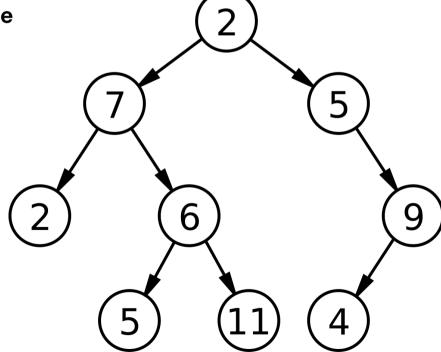
Examples of Binary Tree





A tree whose elements have at most 2 children
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Examples of Binary Tree



Hello would

BINARY TREE REPRESENTATION

A tree is represented by a pointer to the topmost node in tree

If the tree is empty, then value of root is NULL.

A Tree node contains following parts.

Data

Pointer to left child

Pointer to right child

```
struct node
{
  int data;
  struct node *left;
  struct node *right;
};
```

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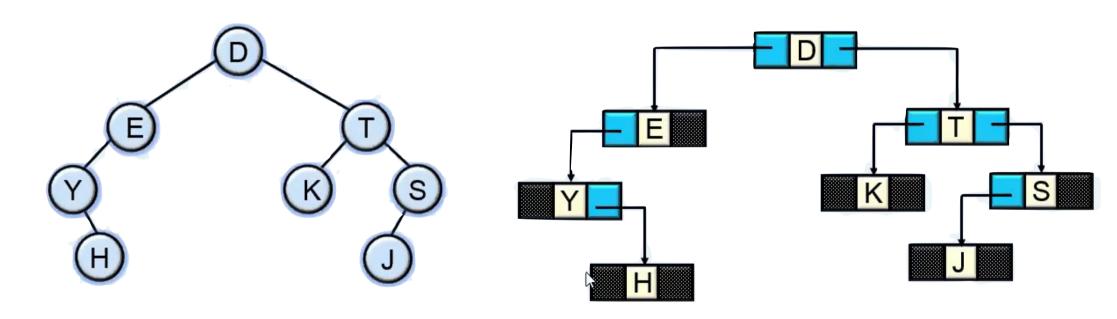
Pointer to left child

Pointer to right child

Left Pointer	Data	Right Pointer
-----------------	------	------------------

```
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```

BINARY TREE REPRESENTATION IN GRAPHICAL WAY



Tree is a hierarchical data structure

Main uses of trees include maintaining hierarchical data

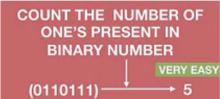
Binary trees are special cases of tree where every node has at most two children.

Hello would



Check the ith bit is set, in the binary form of given numbe...

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#Prime Numbers

CONCEPT OF

PRIME NUMBERS

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